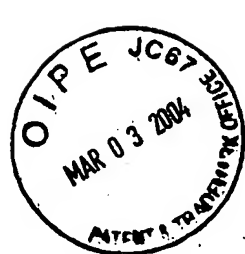


Title: "Normalizing and Classifying Locale-Specific Information"

Inventor(s): GREEN et al.

Docket No.: 50000-00013

Kent A. Fischmann, Esq. (720)562-5501 *Replacement Drawing*



Norm Rules/Rewrite Tab																													
ISO X Normalization and Translation																													
File View Help																													
Apply	Save	Previous	Next																										
Build Grammar		Norm Rules	Norm Test 102																										
<div style="display: flex; justify-content: space-between;"> Terminating Rules by crx] </div> <ul style="list-style-type: none"> <input type="checkbox"/> [crx del] <input checked="" type="checkbox"/> [crx ol] <input type="checkbox"/> .g <input type="checkbox"/> by <input type="checkbox"/> x <input type="checkbox"/> x <input type="checkbox"/> [case] <input checked="" type="checkbox"/> [crx ol] <input type="checkbox"/> .g <input type="checkbox"/> [decimal] <input type="checkbox"/> \d+\ \d+\\\ \\+ <input type="checkbox"/> [bool] <input type="checkbox"/> [fraction] <input type="checkbox"/> [hyphen] <input type="checkbox"/> [inch] <input type="checkbox"/> [integer] <input type="checkbox"/> [length_metric] <input type="checkbox"/> [pack] <input type="checkbox"/> [real_crx] <input type="checkbox"/> [shape] <input type="checkbox"/> [shape_type] <input type="checkbox"/> [unit_item] <input checked="" type="checkbox"/> Volume <input type="checkbox"/> l <input type="checkbox"/> ml <input type="checkbox"/> ml>milliliter <input type="checkbox"/> liter <input type="checkbox"/> liters <input type="checkbox"/> milliliter <input type="checkbox"/> milliliters <input type="checkbox"/> oz <input type="checkbox"/> ounce <input type="checkbox"/> ounces 																													
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Rewrite rule for [volume]</p> <p><input type="radio"/> All <input type="text"/></p> <p><input checked="" type="radio"/> Lookup</p> </div> <div style="flex: 1; border: 1px solid black; height: 30px;"></div> </div> <div style="display: flex; align-items: center;"> <table border="1" style="border-collapse: collapse; width: 60%;"> <thead> <tr> <th style="width: 50%;">Original</th> <th style="width: 50%;">Rewrite As</th> </tr> </thead> <tbody> <tr><td> </td><td>liter</td></tr> <tr><td> </td><td>liter</td></tr> <tr><td> </td><td>milliliter</td></tr> <tr><td>ml</td><td>milliliter</td></tr> <tr><td>ml</td><td>milliliter</td></tr> <tr><td>liter</td><td>liter</td></tr> <tr><td>liters</td><td>liter</td></tr> <tr><td>milliliter</td><td>milliliter</td></tr> <tr><td>milliliters</td><td>milliliter</td></tr> <tr><td>oz</td><td>ounce</td></tr> <tr><td>ounce</td><td>ounce</td></tr> <tr><td>ounces</td><td>ounce</td></tr> </tbody> </table> <div style="margin-left: 20px;"> <p>106 →</p> </div> </div> <div style="margin-top: 10px; text-align: center;"> Clear </div>				Original	Rewrite As		liter		liter		milliliter	ml	milliliter	ml	milliliter	liter	liter	liters	liter	milliliter	milliliter	milliliters	milliliter	oz	ounce	ounce	ounce	ounces	ounce
Original	Rewrite As																												
	liter																												
	liter																												
	milliliter																												
ml	milliliter																												
ml	milliliter																												
liter	liter																												
liters	liter																												
milliliter	milliliter																												
milliliters	milliliter																												
oz	ounce																												
ounce	ounce																												
ounces	ounce																												

FIG. 1

Norm Rules/Order Tab

SOLX Normalization and Transition

File View Help

Apply Save Previous Next

Build Grammar Norm Rules Norm Test 202 204

Rules

- ☒ [area size]
 - ☐ [length size] by [cx] [length size]
 - ☐ [real] by [cx] [length size]
 - ☐ [real] by [cx] [real]
- ☐ [container]
 - ☐ [case]
 - ☐ [pack]
 - ☐ [length size]
 - ☐ [length units]
 - ☐ [real]
 - ☐ [shape .n]
 - ☐ [size container]
 - ☐ [real] [cx] [per] [container]
 - ☐ [container] [cx] [per] [real]
 - ☐ [real] [unit] [item] [cx] [per] [container]
 - ☐ [volume size]

Drag the nodes in the lower line to change the order.
 Click the spaces in the lower line to add nodes.
 Order in Rule for [size_container] -> [container] [cx] [of] [real]

[size_container] [container] [cx] [of] [real]

Rewrite Ordering Joining

FIG.2

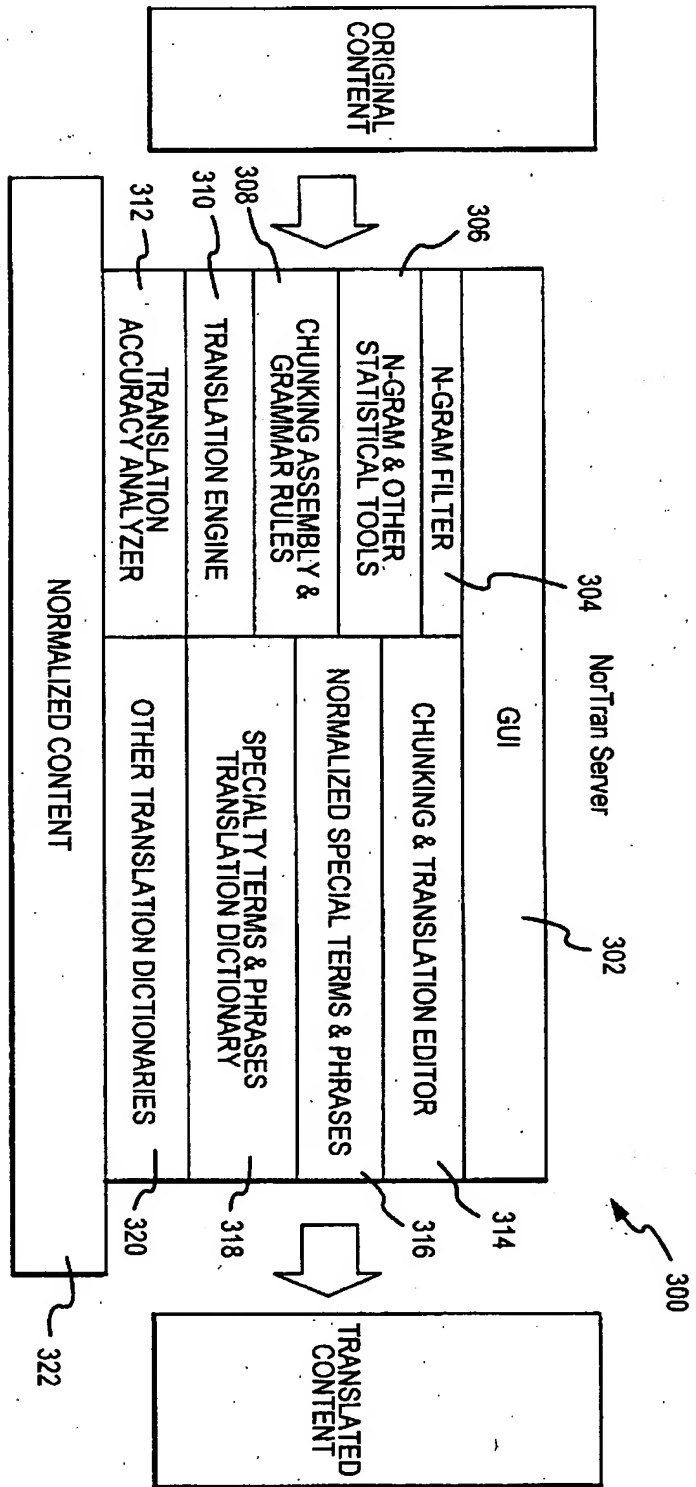


FIG.3

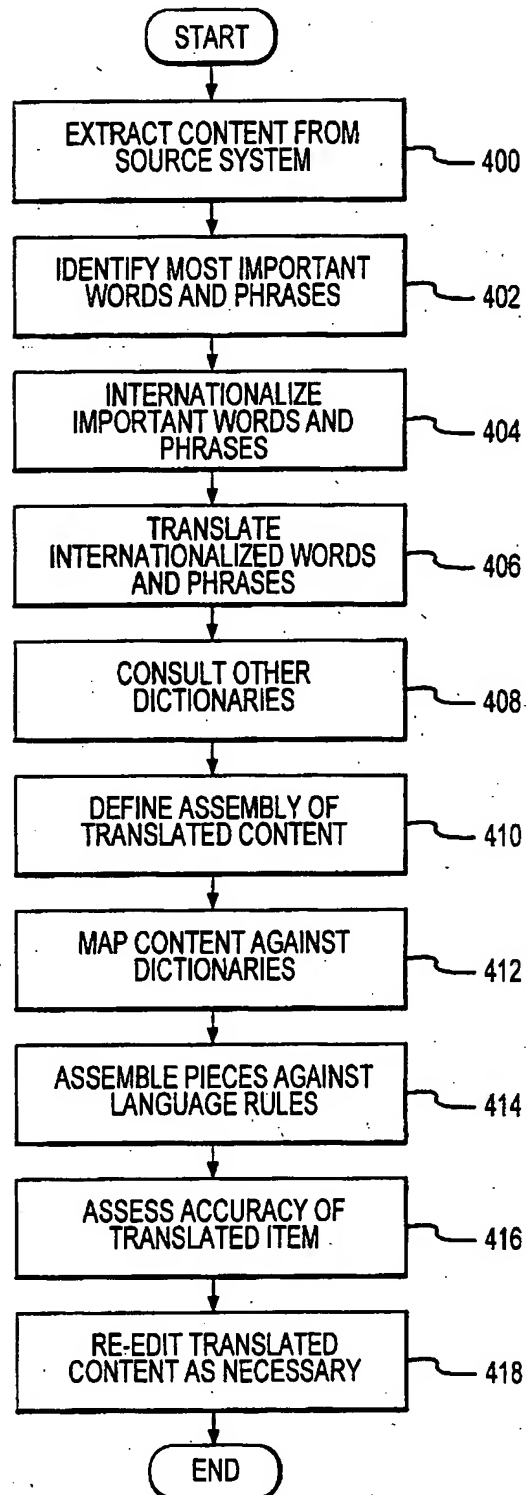


FIG.4

OneRealm SOLX Exerciser

File View Help

Import Content

Import

Normalize Content

Normalize

Phrase Analysis

Analyze

Filter Phrases

Load Phrases

Translate Phrases

Load Dictionary

Translate Content

Translate

Translation Quality Estimation

Translate

Translate

Search Text

OneRealm SOLX Exerciser

Structured Content

Normalized Content

RES 249 OHM 100MW 1% 0805	resistor 249 ohm 100 milliwatt 1% 0805
RESS 51OHM 5% 1/16W 0402	resistor 51 ohm 5% 1/16 watt 0402
RESS 100OHM 5% 1/16W 0402	resistor 10 ohm 5% 1/16 watt 0402
RESS 56 OHM 1/16W 5% 0402	resistor 56 ohm 1/16 watt 5% 0402
RES 200 OHMS 1/16W 5% 0603	resistor 200 ohm 1/16 watt 5% 0603
RES 330 OHMS 1/16W 5% 0603	resistor 330 ohm 1/16 watt 5% 0603
RES 5.1 OHMS 1/16W 5% 0603	resistor 5.1 ohm 1/16 watt 5% 0603
RES 130 OHMS 1/10W 0805	resistor 130 ohm 1/10 watt 0805
RES 62 OHMS 1/16W 5% 0603	resistor 62 ohm 1/16 watt 5% 0603
RES 5.1 OHMS 1/8W 5% 1206	resistor 5.1 ohm 1/8 watt 5% 1206
RES 5.1 OHMS 1/16W 5% 0603	resistor 5.1 ohm 1/16 watt 5% 0603
RES 237 OHMS 1/4W 1% 1210	resistor 237 ohm 1/4 watt 1% 1210
RES 100 OHM 1/4W 1% 1210	resistor 100 ohm 1/4 watt 1% 1210
RES 750HM 100MW 5% 0805	resistor 75 ohm 100 milliwatt 5% 0805
RES 680 OHM 100MW 5% 0805	resistor 680 ohm 100 milliwatt 5% 0805
RES 0.00HM 100MW 5% 0805	resistor 0.0 ohm 100 milliwatt 5% 0805
RES 35.7 OHM 100MW 1% 0805	resistor 35.7 ohm 100 milliwatt 1% 0805
RES NETWORK 100 OHMS	resistor network 100 ohm
RES 100 OHMS 1/16W 5% 0603	resistor 100 ohm 1/16 watt 5% 0603
RES 0.05 OHMS 2512	resistor 0.05 ohm 2512
RES 220 OHMS 1/16W 5% 0603	resistor 220 ohm 1/16 watt 5% 0603
RES 60.4 OHMS 1/4W 1% 1210	resistor 60.4 ohm 1/4 watt 1% 1210
RESS FILM 150 OHM 1/4W 5% 120	resistor film 150 ohm 1/4 watt 5% 120
RESS FILM 0 OHM 1/4W 5% 1206	resistor film 0 ohm 1/4 watt 5% 1206

Source Language

English

▼

Current Process

Working File

Record Count

Normalize Content

C:\OneRealm\SOLX\OldData\Soldemol\putData\content...

100

Target Language

Spanish

▼

FIG.5

OneRealm SOLX Exerciser

File View Help

OldDataSolxDemoInputDataContent.des

...

Import

Normalized Content

...

Normalize

Phrase Analysis

...

Analyze

Filter Phrases

...

Load Phrases

Translate Phrases

...

Load Dictionary

Translate Content

...

Translate

Transition Quality Estimation

...

Train

Search Text

Search

Cancel

OneRealm SOLX Exerciser

Structured Content

...

Normalized Content

...

Source Language

English

Target Language

Spanish

Current Process

Working File

Record Count

100

Normalize Content

C:\OneRealm\SOLX\OldDataSolxDemoInputDataContent...

FIG.6

OneRealm SOLX Exerciser

File View Help

OneRealm SOLX Exerciser

Import Content

data\SolxDemo\inputData\Content.des.mmm

Import

...

Normalize Content

data\SolxDemo\result\content.des.mmm

Normalize

...

Phrase Analysis

data\SolxDemo\result\content.des.mmm

Analyze

...

Filter Phrases

Load Phrases

Save

...

Translate Phrases

Load Dictionary

Save

...

Translate Content

Translate

Save

...

Translation Quality Estimation

Trage

Sample

Train

Estimate

Search Text

Search

Cancel

Chunk	Occurrence
number	327
number pin [number]	22
resistor thick [number]	20
/number wait axi	4
[number] pin	2
fuse [number] [number]	2
fuse [number] ohm [number]	2
meto [number] ohm [number]	2
+	1
ac	1
bit	1
crimped [number] ohm	1
dc	1
indp bead eni	1
misc	1
misc assy crimped	1
port bus switch	1
pwr metal strip	1
s	1
th	1
thickfilm	1

Source language

English

Target language

Spanish

Current Process

Working File

Report Count

Phrase Analysis

C:\OneRealm\SOLX\1\data\SolxDemo\result\content.des.mmm

21

FIG.7

OneRealm SOLX Exerciser

File View Help

OneRealm SOLX Exerciser

Import Content

data\src\Demo\input\data\content\des

Import

Normalize Content

data\src\Demo\input\data\content\des

Normalize

Phrase Analysis

data\src\Demo\input\data\content\des

Analyze

Filter Phrases

src\Demo\input\data\content\des

Load Phrases

Translate Phrases

data\src\Demo\input\data\content\des

Load Dictionary

Translate Content

src\Demo\input\data\content\des

Translate

Translation Quantity Estimation

src\Demo\input\data\content\des

Train

src\Demo\input\data\content\des

Search

src\Demo\input\data\content\des

Cancel

Expression	Part of Speech	Source	Target
Expression		number	
Expression		number pin	
Expression		resistor thick	
Expression		/number wait ax	
Expression		number pin	
Expression		fuse	
Expression		fuse	
Expression		meic	
Expression		+	
Expression		ac	
Expression		bit	
Expression		crimped	
Expression		dc	
Expression		indp bead emi	
Expression		misc	
Expression		misc assy crimped	
Expression		port bus switch	
Expression		pwr metal strip	
Expression		s	
Expression		th	
Expression		thickfilm	

Source Language

English

Target Language

Spanish

Current Process

Working File

Record Count

21

Translate Phrases

C:\OneRealm\SOLX\data\src\Demo\input\data\content\des

FIG.8

OneRealm SOLX Exerciser

File View Help

Import Content

Oldata\Soldemo\input\data\content des

Import

Normalize Content

Normalize

Phrase Analysis

data\Soldemo\result\content des.nrm

Analyze

Filter Phrases

Soldemo\input\content des.nrm.ngr.fing

Load Phrases

Save

Translate Phrases

oldemo\input\content des.nrm.ngr.fing

Load Dictionary

Save

Translate Content

OLX1.0\data\Soldemo\input\content.mtr

Translate

Save

Translate Content

Translate Quantity Estimation

Train

Sample

Estimate

Search Text

Search

Cancel

OneRealm SOLX Exerciser

Source	Translated
249 ohm, 100 milliwatt, 1% 0805	249 ohmios, 100 milivatios, 1%, 0805
51 ohm, 5%, 1/16 watt, 0402	51 ohmios, 5%es, 1/16 vatios, 0402
10 ohm, 5%, 1/16 watt, 0402	10 ohmios, 5%es, 1/16 vatios, 0402
56 ohm, 1/16 watt, 5%, 0402	56 ohmios, 1/16 vatios, 5%es, 0402
200 ohm, 1/16 watt, 5%, 0603	200 ohmios, 1/16 vatios, 5%es, 0603
330 ohm, 1/16 watt, 5%, 0603	330 ohmios, 1/16 vatios, 5%es, 0603
5.1 ohm, 1/16 watt, 5%, 0603	5.1 ohmio, 1/16 vatios, 5%es, 0603
130 ohm, 1/10 watt, 0805	130 ohmios, 1/10 vatios, 0805
62 ohm, 1/16 watt, 5%, 0603	62 ohmios, 1/16 vatios, 5%es, 0603
5.1 ohm, 1/8 watt, 5%, 1206	5.1 ohmio, 1/8 vatios, 5%es, 1206
5.1 ohm, 1/16 watt, 5%, 0603	5.1 ohmio, 1/16 vatios, 5%es, 0603
237 ohm, 1/4 watt, 1%, 1210	237 ohmios, 1/4 vatios, 1%, 1210
100 ohm, 1/4 watt, 1%, 1210	100 ohmios, 1/4 vatios, 1%, 1210
75 ohm, 100 milliwatt, 5%, 0805	75 ohmios, 100 milivatios, 5%es, 0805
680 ohm, 100 milliwatt, 5%, 0805	680 ohmios, 100 milivatios, 5%es, 0805
0.0 ohm, 100 milliwatt, 5%, 0805	0.0 ohmios, 100 milivatios, 5%es, 0805
35.7 ohm, 100 milliwatt, 1%, 0805	35.7 ohmios, 100 milivatios, 1%, 0805
resistor network, 100 ohm	red del resistor, 100 ohmios
100 ohm, 1/16 watt, 5%, 0603	100 ohmios, 1/16 vatios, 5%es, 0603
0.05 ohm, 2512	0.05 ohmios, 2512
220 ohm, 1/16 watt, 5%, 0803	220 ohmios, 1/16 vatios, 5%es, 0803
60.4 ohm, 1/4 watt, 1%, 1210	60.4 ohmios, 1/4 vatios, 1%, 1210
film, 150 ohm, 1/4 watt, 5%, 1210	pelicula, 150 ohmios, 1/4 vatios, 5%es, 120
film, 0 ohm, 1/4 watt, 5%, 1206	pelicula, 0 ohmios, 1/4 vatios, 5%es, 1206

Source Language

English

Target Language

Spanish

Current Process

Working File

Record Count

100

Translate Content

C:\OneRealm\SOLX1.0\data\Soldemo\input\content.mtr

FIG.9

OneRealm SOLX Exerciser

File View Help

OneRealm SOLX Exerciser

Import Content

Normalize Content

Phrase Analysis

Analyze

Filter Phrases

Load Phrases

Translate Phrases

Load Dictionary

Translate Content

Translate

Translation Quantity Estimation

UdalaSolxDemoInputDataContent.des.tpe

Train

Search Text

Source Text	Target Text	Quality
resistor 0.05 ohm 2512	resistor 0.05 ohms 2512	GOOD
resistor 60.4 ohm 1/4 watt 1...	resistor 60.4 ohms 1/4 watt...	GOOD
10 bit 2 post bus switch w/25 ohm	10 interruptor portuño de autob...	GOOD
resistor 4.7 ohm 5% 1/1 watt...	resistor 4.7 ohms 5% 1/1...	GOOD
resistor 16.5 ohm 1% 1/4 wa...	resistor 16.5 ohms 1% 1/...	GOOD
resistor 3.9 5% 1/4 watt...	resistor 3.9 ohms 5% 1/4...	GOOD

Source Language

Target Language

Current Process

Working File

Record Count

Quality Estimate

FIG.10

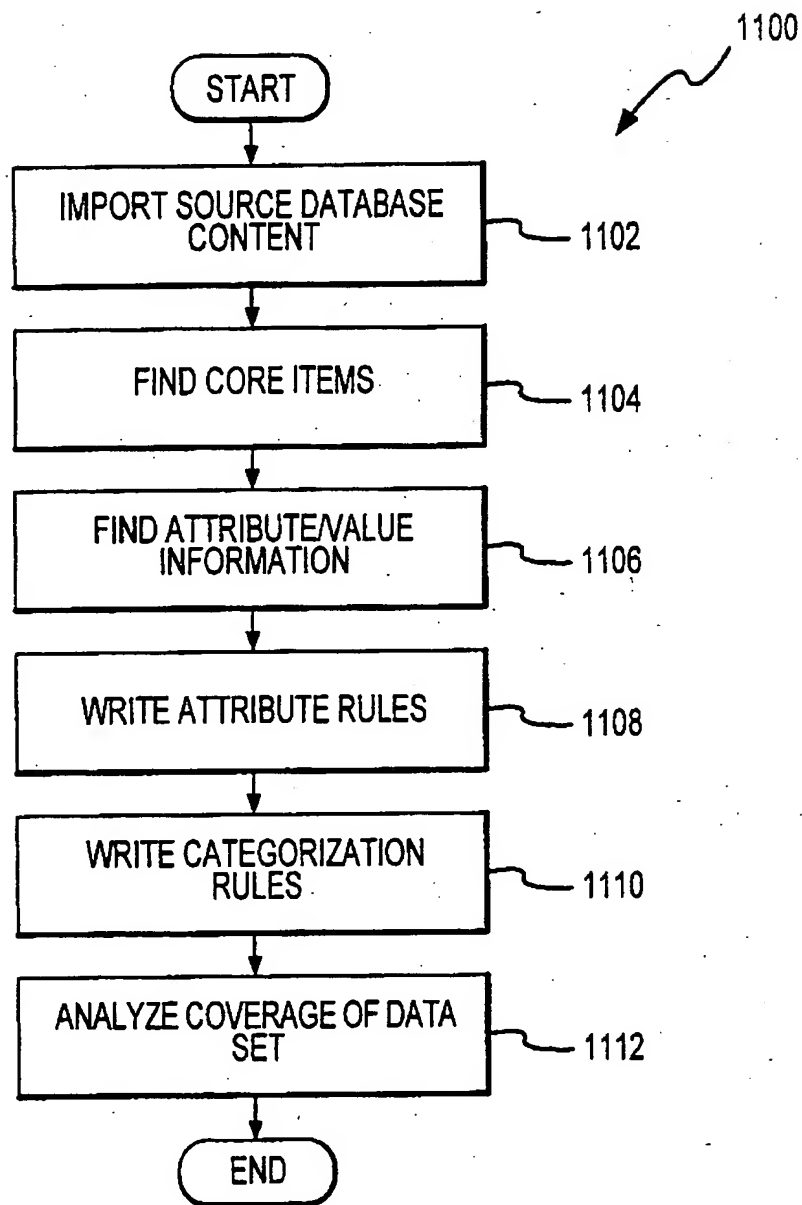


FIG.11

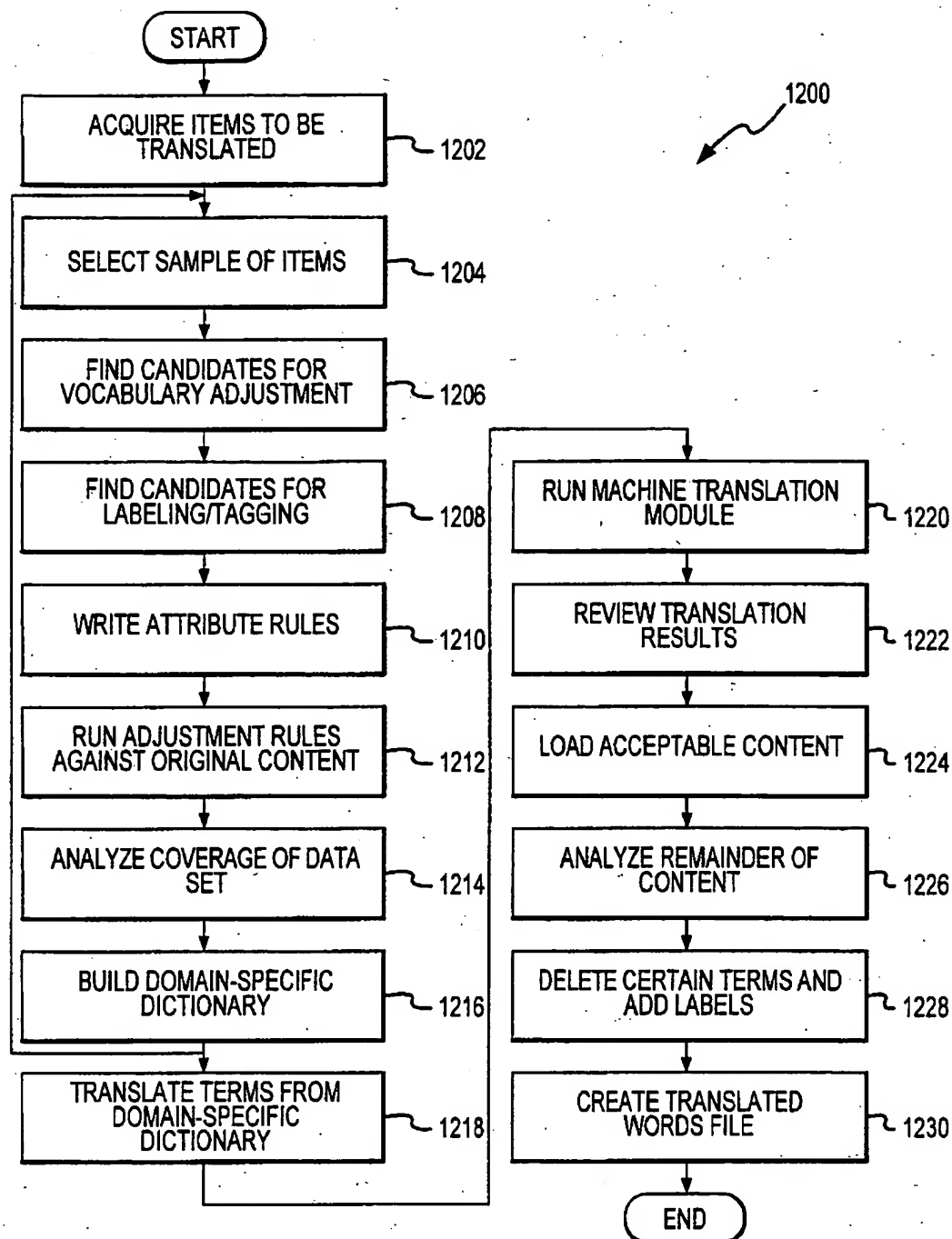


FIG.12

SOLX Normalization and Translation

ISO X Normalization and Translation				
File View Help				
Apply	Save	Previous		
Build Grammar	Norm Rules	Norm Test		
Sample De BAD 6-1/2" x 7-1/2" in tossler oven tray				
<div style="float: right; font-size: small;"> ammonium hydroxide asc 2.51 BAD 6-1/2" x 7-1/2" in tossler oven tray BG test probe 1 and 1/2 inches in length balen reporter alkaline pack of 8 bibulin paper 15x10 cm 12 boxes blade non sterile no 22 #10 bl of test d prov 32 oz 12's buffer cid val ph 7.00 500 ml drops 160x50 ml drops 1x without calcium & magnesium eluteccos rps 1x without calcium and m ethyl alcohol separator row bottle 41.4 T autoclave bag 25x35 200pk label tape mse 25 mmx1.5mm </div> <div style="clear: both;"></div>				
<pre> graph TD A["[length size]"] --> B["[real]"] A --> C["[length_units]"] A --> D["[area_size]"] A --> E["[length_size]"] B --> F["[integer]"] B --> G["[fraction]"] B --> H["[inch]"] F --> I["6"] F --> J["."] F --> K["1/2"] G --> L["."] H --> M["x"] H --> N["7"] H --> O["."] D --> P["[by_cnx]"] D --> Q["[integer]"] D --> R["[real_cn]"] D --> S["[frac]"] P --> T["x"] P --> U["7"] P --> V["."] Q --> W["7"] R --> X["."] S --> Y["1/2"] </pre>				

FIG. 13

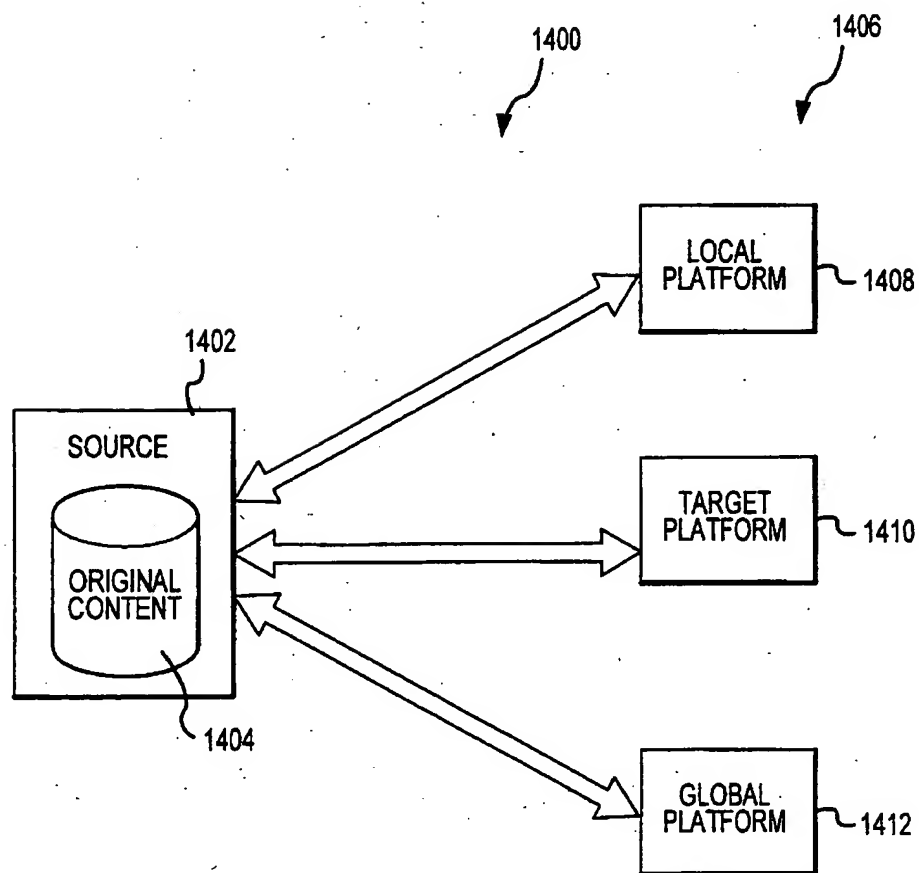


FIG.14

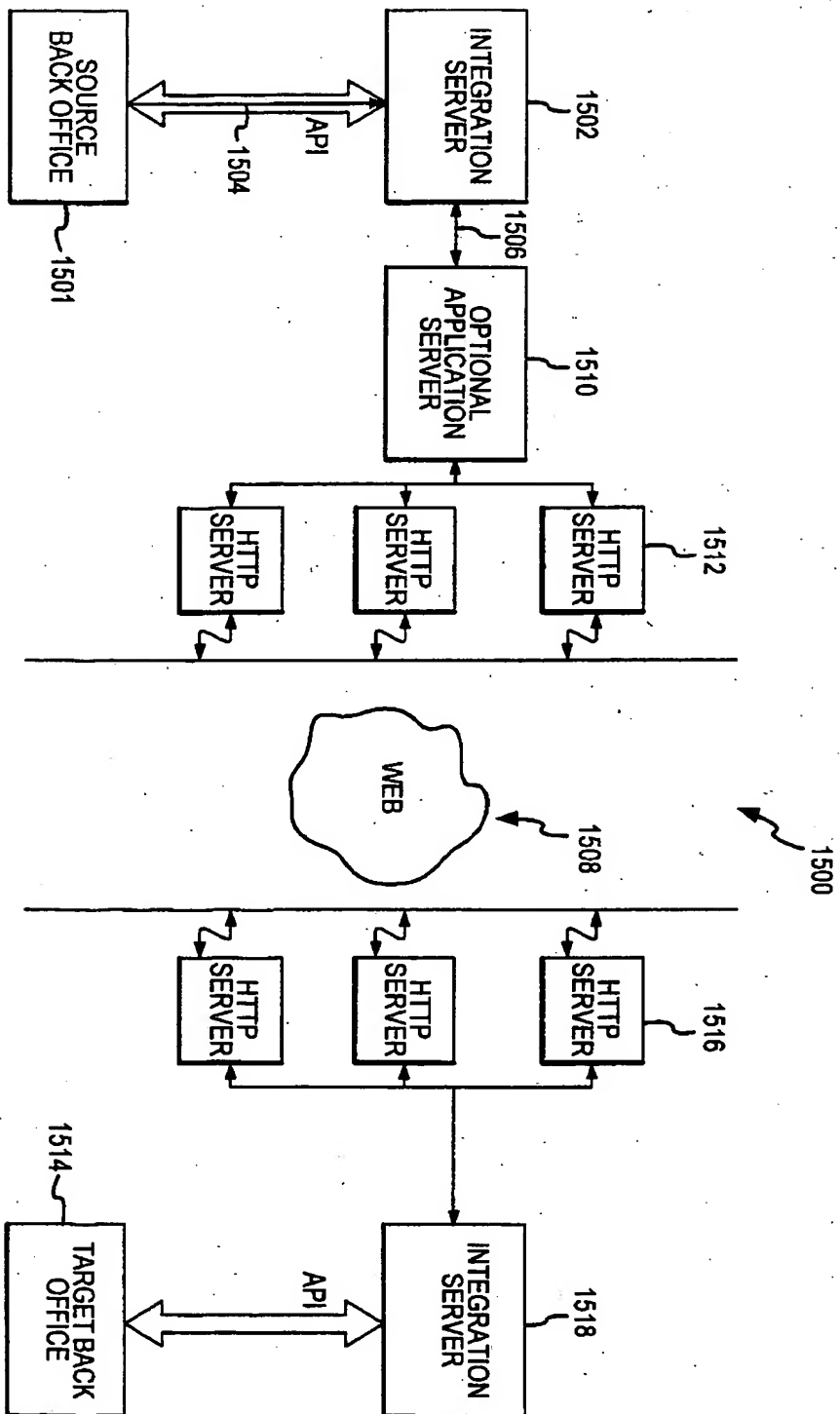
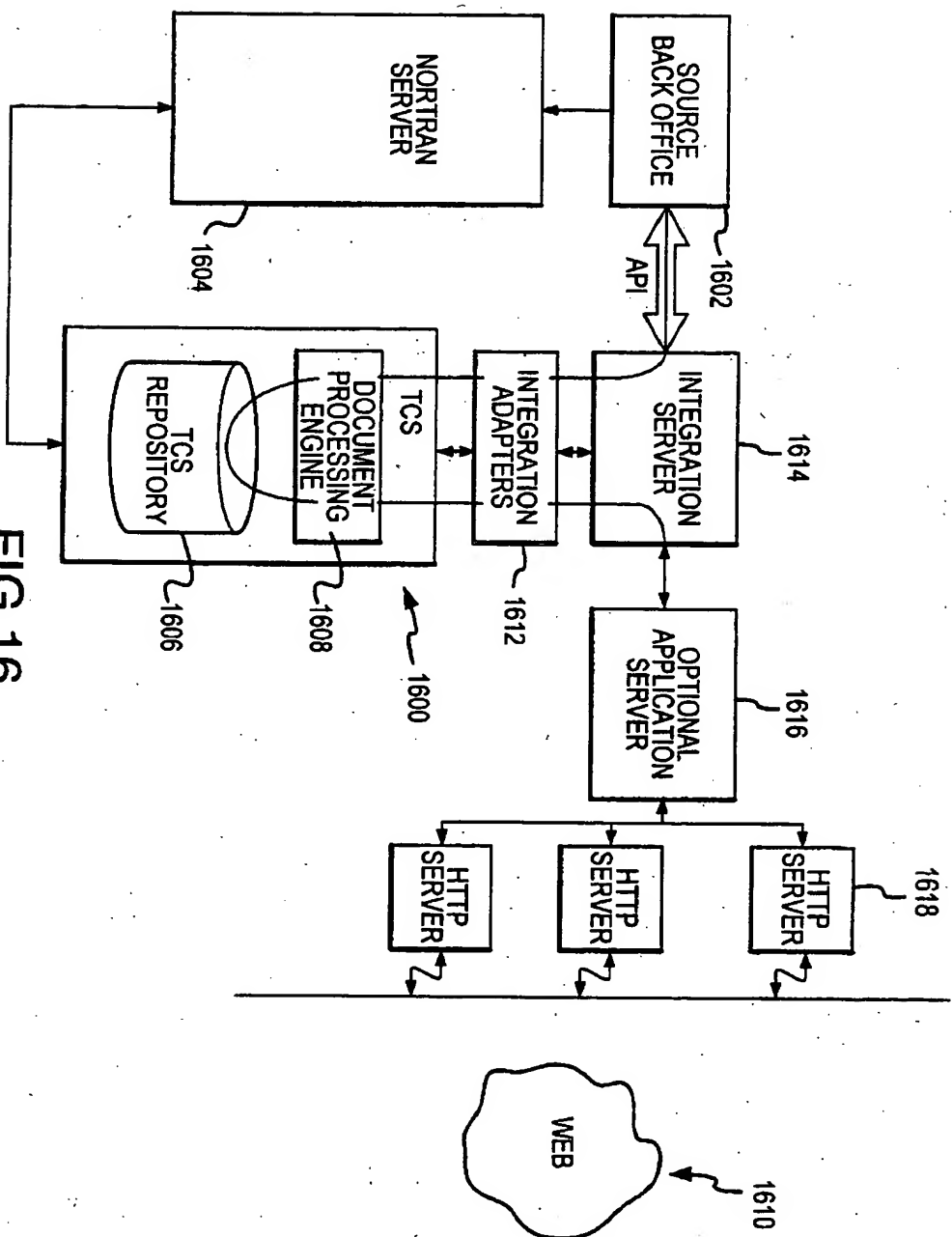
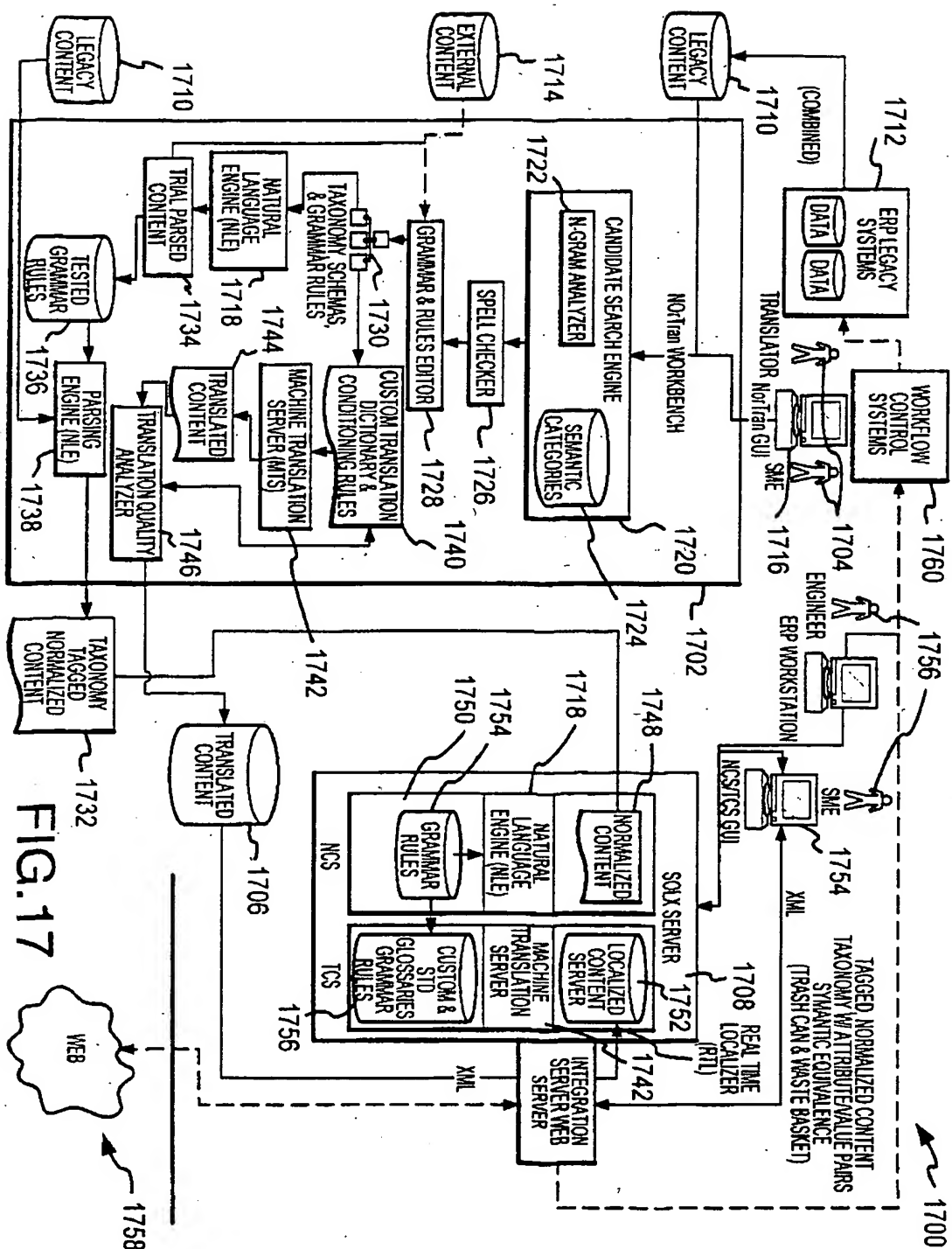


FIG. 15





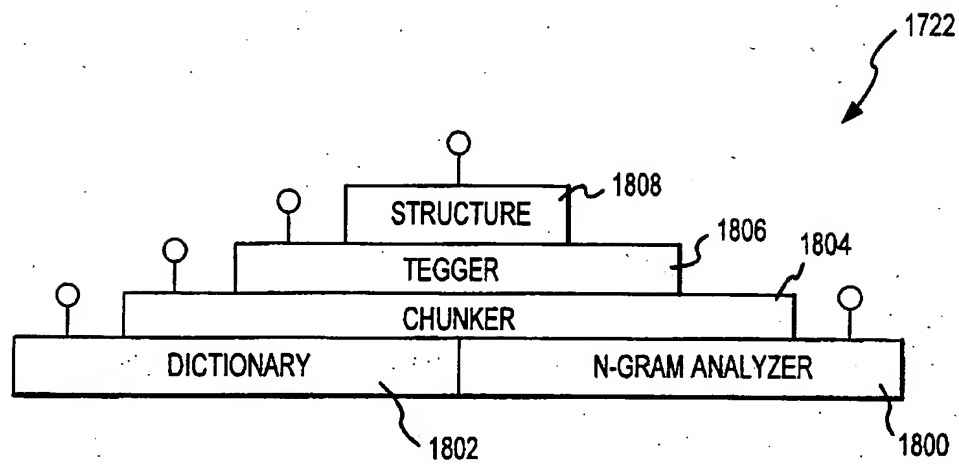


FIG.18

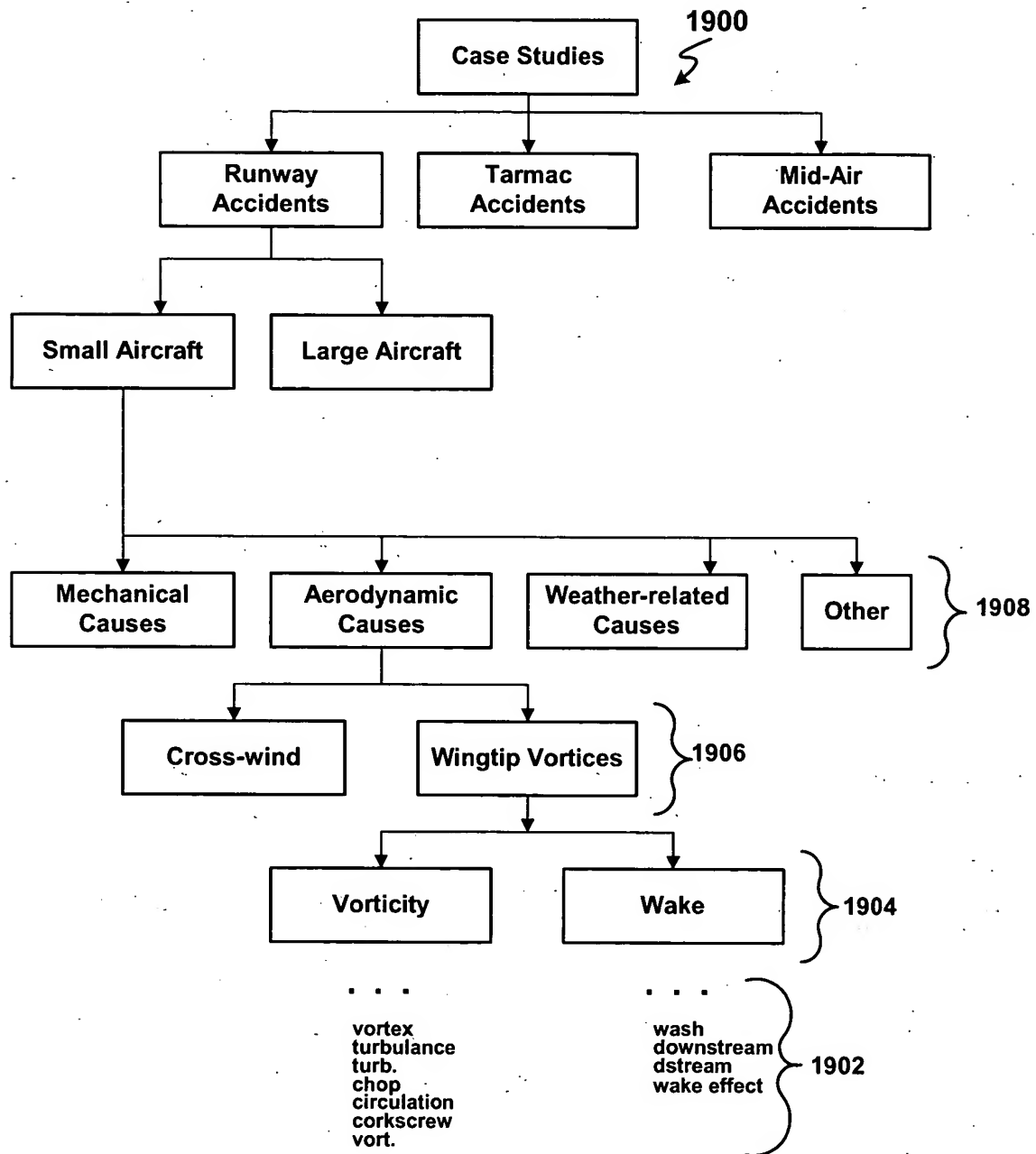


FIG. 19

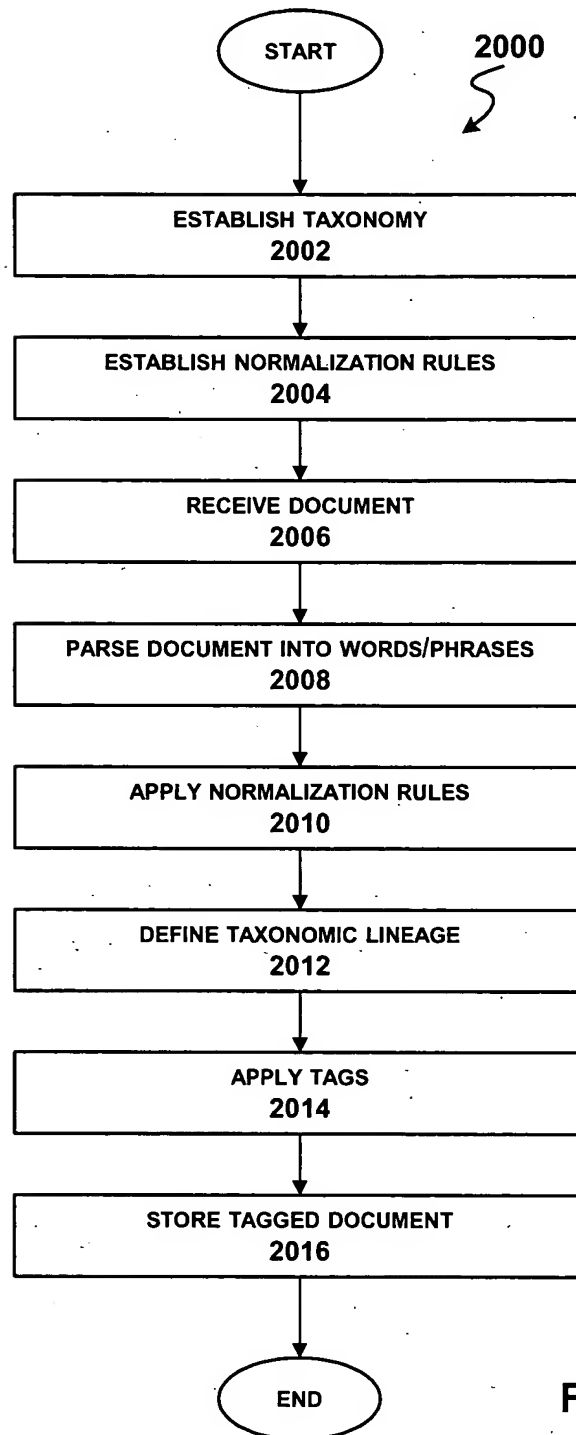


FIG. 20

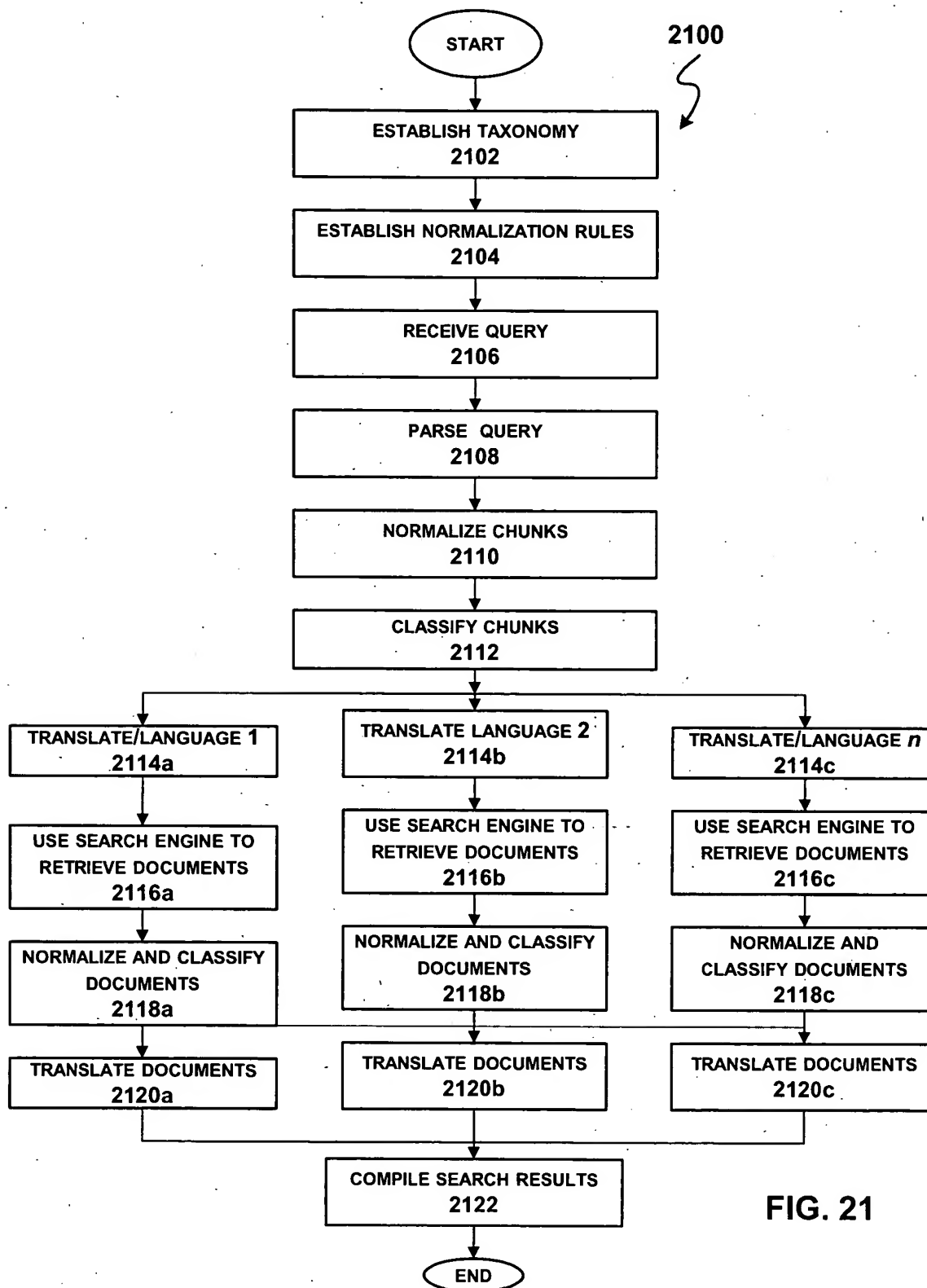


FIG. 21